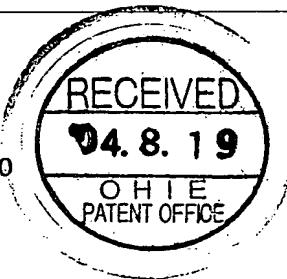


PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

see form PCT/ISA/220



PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

		Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)	
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER ACTION See paragraph 2 below	
International application No. PCT/JP2004/005895	International filing date (day/month/year) 23.04.2004	Priority date (day/month/year) 24.04.2003	
International Patent Classification (IPC) or both national classification and IPC C08K7/06, D01F9/127, H01B1/24			
Applicant SHOWA DENKO K.K.			

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized Officer Zeslawski, W. Telephone No. +49 89 2399-7159
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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITYInternational application No.
PCT/JP2004/005895

JC20 Rec'd PCT/PTO 24 OCT 2009

Box No. I Basis of the opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material:

- a sequence listing
 table(s) related to the sequence listing

b. format of material:

- in written format
 in computer readable form

c. time of filing/furnishing:

- contained in the international application as filed.
 filed together with the international application in computer readable form.
 furnished subsequently to this Authority for the purposes of search.

3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/JP2004/005895

Box No. II Priority

1. The following document has not been furnished:

- copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).
 translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).

Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.

2. This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.

3. Additional observations, if necessary:

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or
industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Yes: Claims	
	No: Claims	1-18
Inventive step (IS)	Yes: Claims	
	No: Claims	1-18
Industrial applicability (IA)	Yes: Claims	1-18
	No: Claims	

2. Citations and explanations

see separate sheet

Box No. VI Certain documents cited

1. Certain published documents (Rules 43bis.1 and 70.10)

and / or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING
AUTHORITY (SEPARATE SHEET)**

International application No.
PCT/JP2004/005895

JC20 Rec'd PCT/PTO 24 OCT 2005

The following documents are referred to in this communication:

- D1 : EP 0 578 245 A (MITSUBISHI PETROCHEMICAL CO) 12 January 1994 (1994-01-12)
- D2 : US 4 999 244 A (MORIMOTO SHINGO) 12 March 1991 (1991-03-12)
- D3 : US 5 458 967 A (KANNO TOSHIAKI ET AL) 17 October 1995 (1995-10-17)
- D4 : EP 0 337 487 A (SHOWA DENKO KK) 18 October 1989 (1989-10-18)
- D5 : EP 1 191 131 A (SHOWA DENKO KK) 27 March 2002 (2002-03-27)
- D6 : PATTON R D ET AL: "Vapor grown carbon fiber composites with epoxy and poly(phenylene sulfide) matrices" COMPOSITES PART A: APPLIED SCIENCE AND MANUFACTURING, ELSEVIER SCIENCE PUBLISHERS B.V., AMSTERDAM, NL, vol. 30, no. 9, September 1999 (1999-09), pages 1081-1091, XP004171653 ISSN: 1359-835X
- D7 : WO 02/49412 A (INOUE HITOSHI ; MORITA TOSHIO (JP); SHOWA DENKO KK (JP); YAMAMOTO RYUJU) 27 June 2002 (2002-06-27)
- D8 : PATENT ABSTRACTS OF JAPAN vol. 1995, no. 09, 31 October 1995 (1995-10-31) & JP 7 150419 A (SHOWA DENKO KK), 13 June 1995 (1995-06-13)

Concerning Point V:

Novelty (Art.33(2) PCT)

Each of the cited documents discloses vapour grown carbon fibres having a diameter of 0.001 µm to 5 µm and an aspect ratio of 5 to 15000. Furthermore, the said carbon fibres contain boron and are used as an ingredient of a resin. (D1: cl.1,2,8; D2: cl.1; D3: cl.1; D4: Examples; D5: cl.6,9,17; D6: abstract; D7: cl.1,11,12; D8: par [008]).

Consequently, the subject matter of claims 1-18 is not novel.

Inventive Step (Art.33(3) PCT)

Providing an amended main claim which meets the requirements of Art.33(2) PCT, the applicant should relate the distinguishing feature to a surprising (unexpected) technical effect or make credible or plausible that the distinguishing feature is not derivable from the prior art teaching.